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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/774,535	02/10/2004	Jae-Sung Lee	61610115US	3220	
58027	7590 04/19/2006		EXAMINER		
H.C. PARK & ASSOCIATES, PLC			AL NAZER, LEITH A		
8500 LEESBU SUITE 7500	JRG PIKE	ART UNIT	PAPER NUMBER		
VIENNA, VA	22182		2821		
			DATE MAILED: 04/19/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ation No.	Applicant(s)				
Office Action Summary			,535	LEE ET AL.				
			er	Art Unit				
		Leith A.	Al-Nazer	2821				
Period f	The MAILING DATE of this communic or Reply	ation appears on t	the cover sheet with the c	correspondence addre	SS			
WHIC - Exte after - If NC - Failt Any	IORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu D period for reply is specified above, the maximum star- ure to reply within the set or extended period for reply we reply received by the Office later than three months afted and patent term adjustment. See 37 CFR 1.704(b).	ALING DATE OF 137 CFR 1.136(a). In no nication. utory period will apply and ill, by statute, cause the a	THIS COMMUNICATION event, however, may a reply be tire will expire SIX (6) MONTHS from application to become ABANDONE	N. nely filed the mailing date of this comm D (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed	on 29 March 200	16 .					
	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	,—							
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) <u>1-15</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1,3,7-9,11 and 15</u> is/are rejected.							
7)🖂	Claim(s) <u>2,4-6,10 and 12-14</u> is/are objected to.							
8)□	Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9)[The specification is objected to by the	Examiner.						
· · · · · ·	The drawing(s) filed on 10 February 2		<u>er 2005</u> is/are: a)⊠ acc	cepted or b) objecte	ed to by the			
Examine			•	. , ,	•			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to	by the Examiner.	Note the attached Office	Action or form PTO-	152.			
Priority (under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority december 2. Certified copies of the priority december 3. Copies of the certified copies of application from the Internation See the attached detailed Office action	ocuments have be ocuments have be the priority docur al Bureau (PCT R	een received. een received in Applicati ments have been receive ule 17.2(a)).	on No ed in this National Sta	ige			
Attachmen	ıt(s)							
	e of References Cited (PTO-892)		4) Interview Summary					
	ce of Draftsperson's Patent Drawing Review (PT		Paper No(s)/Mail Da	ate Patent Application (PTO-15	21			
	mation Disclosure Statement(s) (PTO-1449 or P er No(s)/Mail Date	1 U/30/106)	6) Other:	atom Application (FTO-15)	-)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3, 7-9, 11, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,910,792 to Hansen et al.

With respect to claim 1, Hansen teaches an image display, comprising: a display panel including a plurality of pixels arranged in a matrix pattern (figure 4), a plurality of first electrodes individually formed corresponding to the pixels, a second electrode formed in common with the first electrodes (figures 3 and 4), a plurality of light emitting elements provided between the first electrode and the second electrode and including a light emitting layer (304), and a plurality of transistors provided corresponding to the pixels and connected between the first electrodes and a power supply voltage line for controlling the current supply to the EL elements (figures 5-7); a scan driver (420a-c) for sequentially selecting respective pixel lines; a data driver (440) for applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected; and a display controller (figures 5-7) for using a current value fed back from the second electrode (512; figure 5; column 6, line 64 – column 7, line 18) of the display panel and externally input RGB data (column 8, lines 44-58) to correct a white gray level

of the RGB data and generate RGB display data, and for providing the generated RGB display data to the data driver (440), wherein the display controller (figures 5-7) determines an amount of emitted light on the corresponding screen according to the fed back current to generate a brightness control reference signal corresponding to the amount of emitted light, and controls the white gray level of the RGB data according to the brightness control reference signal to control the brightness of the display panel (figures 4-7; column 5, lines 36-66; column 6, line 64 – column 7, line 18; column 8, lines 44-58).

With respect to claim 3, Hansen teaches the current fed back from the display panel being a summation of currents flowing to the second electrode from the first electrodes of the respective pixels (figure 5; column 6, line 1 – column 7, line 25).

With respect to claim 7, Hansen teaches an image display, comprising: a display panel including a plurality of pixels arranged in a matrix pattern (figure 4), a plurality of first electrodes individually formed corresponding to the pixels, a plurality of second electrodes commonly formed for a plurality of groups defined by defining the first electrodes as the groups (figures 3 and 4), a plurality of light emitting elements provided between the first electrode and the second electrode and including a light emitting layer (304; figure 3), and a plurality of transistors provided corresponding to the pixels and connected between the first electrodes and a power supply voltage line for controlling the current supply to the EL elements (figures 5-7); a scan driver (420a-c) for sequentially selecting respective pixel lines; a data driver (440) for applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line

is selected; and a display controller (figures 5-7) for using a current value fed back from at least one second electrode (512; figure 5; column 6, line 64 – column 7, line 18) of the display panel and externally input RGB data (column 8, lines 44-58) to correct a white gray level of the RGB data and to generate RGB display data, and for providing the generated RGB display data to the data driver (440), wherein the display controller determines an amount of emitted light on the corresponding screen according to the fed back current to generate a brightness control reference signal corresponding to the amount of emitted light, and controls the white gray level of the RGB data according to the brightness control reference signal to control the brightness of the display panel (figures 4-7; column 5, lines 36-66; column 6, line 64 – column 7, line 18; column 8, lines 44-58).

With respect to claim 8, Hansen teaches a method for driving an image display, comprising: sequentially selecting respective pixel lines (figure 4); applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected (figure 4; column 8, lines 44-58); and using a current value fed back from the second electrode of the display panel and externally input RGB data to correct a white gray level of the RGB data and generate RGB display data, and to provide the generated RGB display data to a data driver (figures 4-7; column 5, lines 36-66; column 6, line 64 – column 7, line 18; column 8, lines 44-58).

With respect to claim 9, Hansen teaches an image display, comprising: a display panel including a plurality of pixels arranged in a matrix pattern (figure 4); a scan driver (420a-c) for sequentially selecting respective pixel lines; a data driver (440) for applying

an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected; and a display controller (figures 5-7) for using a current value fed back from an electrode of the display panel (512; column 6, line 64 – column 7, line 18) and externally input RGB data (column 8, lines 44-58) to correct a white gray level of the RGB data and generate RGB display data, and for providing the generated RGB display data to the data driver, wherein the display controller determines an amount of emitted light on the corresponding screen according to the fed back current to generate a brightness control reference signal corresponding to the amount of emitted light, and controls the white gray level of the RGB data according to the brightness control reference signal to control the brightness of the display panel (figures 4-7; column 5, lines 36-66; column 6, line 64 – column 7, line 18; column 8, lines 44-58).

With respect to claim 11, Hansen teaches the current fed back from the electrode of the display panel being a summation of currents flowing to a second electrode from one or more first electrodes that each correspond to a respective pixel (figure 5; column 6, line 1 – column 7, line 25).

With respect to claim 15, Hansen teaches a method for driving an image display, comprising: sequentially selecting respective pixel lines (figure 4); applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected (figure 4; column 8, lines 44-58); and using a current value fed back from an electrode of a display panel and externally input RGB data to correct a white gray level of the RGB data and generate RGB display data, and to provide the generated RGB

display data to a data driver (figures 4-7; column 5, lines 36-66; column 6, line 64 – column 7, line 18; column 8, lines 44-58).

Allowable Subject Matter

- 3. Claims 2, 4-6, 10, and 12-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter:

With respect to dependent claims 2 and 10, the prior art of record fails to teach or suggest the display controller comprising the combination of a current voltage converter, an operational controller, a data voltage ratio controller, and a voltage amplifier.

Response to Arguments

5. Applicant's arguments with respect to claims 1, 3, 7-9, 11, and 15 have been considered but are most in view of the new ground(s) of rejection.

Citation of Pertinent References

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following references further show the state of the art with respect to image display controllers:

a. U.S. Patent No. 6,388,649 to Tanaka et al.

b. U.S. Patent No. 5,889,503 to Kikuchi et al.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leith A. Al-Nazer whose telephone number is 571-272-1938. The examiner can normally be reached on Monday-Friday, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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THUY V. TRAN
PRIMARY EXAMINER

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